

### **REMARKS**

Claims 1-140 are now pending in the application. Claims 3, 7, 11, 15, 24-26, 29-30, 33-34, 37-38, 41-46, 55, 58-59, 62, 64, 67-68, 71-72, 76, 79, 82, 85-88, 90-92, 94-97, 99-101, 103-104, 107-111, 113-114, 118, 122-123, 127, 133-134 and 140 are herein amended. Minor amendments have been made to Claims 3, 7, 11, 15, 24-26, 29-30, 33-34, 37-38, 41-46, 55, 58-59, 62, 64, 67-68, 71-72, 76, 79, 82, 85-88, 90-92, 94-97, 99-101, 103-104, 107-111, 113-114, 118, 122-123, 127, 133-134 to simply overcome the objections and rejections of the claims under 35 U.S.C. § 112. The minor amendments are not narrowing amendments. Claim 140 is also herein amended. The Examiner is respectfully requested to reconsider and withdraw the objections and rejections in view of the amendments and remarks contained herein.

### **CLAIM OBJECTIONS**

Claims 3-5, 7, 8, 9, 11, 12, 13, 15, 16, 17, 26, 27, 28, 30, 31, 32, 34-36, 38, 39-40, 42, 55-57, 59-61, 63-66, 68-70, 73, 74, 79, 85, 87-89, 91-93, 96-98, 100-103, 113, 114-116, 118-120, 122-125 and 127-129 are objected to because of informalities.

With respect to Claim 3, the Examiner requests that the parameters  $K_e$  and  $K_o$  be defined in Claim 3. The Examiner states that parameters  $K_e$  and  $K_o$  should also be defined in Claims 4, 7, 8, 9, 11, 12, 13, 15, 16, 17, 26, 27, 28, 30, 31, 32, 34-36, 38, 39-40, 55-57, 59-61, 63-66, 68-70, 87-89, 91-93, 96-98, 100-103, 114-116, 118-120, 123-125, and 127-129 where appropriate. Claims 3, 7, 11, 15, 26, 30, 34, 38, 55, 59, 64, 68, 87, 91, 96, 100, 114, 118, 123 and 127 are herein amended as suggested.

With respect to Claim 42, The Examiner requests that “further” should be inserted before “comprising” in line 1. The same request applies to Claims 43-44, 58, 62, 67, 71, 72, 95, 109, 110, 113, and 122. Claims 42-44, 58, 62, 67, 71, 72, 95, 109, 110, 113, and 122 are amended as suggested.

With respect to Claims 79 and 140, The Examiner alleges that “at least one of” should be deleted from lines 1. Claims 79 and 140 are amended to claim at least one of controlling gain and timing phase.

With respect to Claim 85, the Examiner states that the dependency should be changed from “79” to “84” to provide antecedent basis for the recited “two filter coefficients”. Claim 85 is amended as suggested.

With respect to Claims 91, 96 and 100, the Examiner states that “method” should be replaced by “the method further” in line 4. Claims 91, 96 and 100 are amended as suggested.

With respect to Claim 134, the Examiner states that “can be” should be replaced by “is” in line 5. Claims 134 is amended as suggested.

With respect to Claims 113 and 122, the Examiner states that “filter” should be replaced by “means for filtering” in line 10. Claims 113 and 122 are amended as suggested.

Claims 73 and 74 are objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Although Applicant does not necessarily agree with this objection, Claim 72 is herein amended. Claims 73 and 74 are clearly now of different scope and of proper dependent form.

Thus, for at least the above stated reasons the objections to Claims 3-5, 7, 8, 9, 11,

12, 13, 15, 16, 17, 26, 27, 28, 30, 31, 32, 34-36, 38, 39-40, 42, 55-57, 59-61, 63-66, 68-70, 73, 74, 79, 85, 87-89, 91-93, 96-98, 100-103, 113, 114-116, 118-120, 122-125 and 127-129 are now overcome and Applicant, respectfully, requests that the objections be withdrawn.

#### **REJECTION UNDER 35 U.S.C. § 112**

Claims 24-46 stand rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which Applicant regards as the invention. The Examiner states that claimed means elements are recited without a specified function to be performed. Claims 24-25, 29, 33, 37 and 41-46 are herein amended as suggested. Claims 107-108 and 111 are also herein amended. Thus, for at least the above stated reasons the 35 U.S.C. § 112 rejection is overcome.

#### **REJECTION UNDER 35 U.S.C. § 101**

Claims 140 stands rejected under 35 U.S.C. § 101 because the claimed invention is directed to non-statutory subject matter. This rejection is respectfully traversed. Claim 140 was amended to recite the computer program is stored on a computer readable medium per the Official Guidelines. The 35 U.S.C. § 101 rejection is now overcome.

#### **ALLOWABLE SUBJECT MATTER**

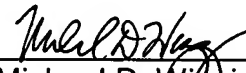
The Examiner states that claims 1-23 and 47-139 are allowed.

## CONCLUSION

It is believed that all of the stated grounds of rejection have been properly traversed, accommodated, or rendered moot. Applicant therefore respectfully requests that the Examiner reconsider and withdraw all presently outstanding rejections. It is believed that a full and complete response has been made to the outstanding Office Action and the present application is in condition for allowance. Thus, prompt and favorable consideration of this amendment is respectfully requested. If the Examiner believes that personal communication will expedite prosecution of this application, the Examiner is invited to telephone the undersigned at (248) 641-1600.

Respectfully submitted,

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